

**510(k) SUMMARY****DENTSPLY**

NAME &amp; ADDRESS:

K021413

**DENTSPLY International**

570 West College Avenue

P.O. Box 872

York, PA 17405-0872

(717) 845-7511

~~Fax (717) 849-4762~~

P. J. Lehn Telefax (717) 849-4343

CONTACT: P. Jeffery Lehn

DATE PREPARED: May 2, 2002

PROPRIETARY NAME: AQUASIL ULTRA RIGID SMART WETTING IMPRESSION MATERIAL

CLASSIFICATION NAME: Impression Material (872.3660)

PREDICATE DEVICES: Aquasil Rigid™ Smart Wetting Impression Material K970433

DEVICE DESCRIPTION: AQUASIL ULTRA RIGID SMART WETTING IMPRESSION MATERIAL is a two-part catalyst/base hydrophilic vinylpolysiloxane impression material. It is formulated for regular set and fast set. This impression material is a heavy viscosity and is available in (1:1 ratio) cartridges or (5:1 ratio) for bulk delivery.

INTENDED USE: AQUASIL ULTRA RIGID SMART WETTING IMPRESSION MATERIAL is used as an impression material in a dual phase impression technique. It may also be used for precise duplication of models. Use Regular Set for capturing multiple unit impressions. It is suitable for all impression techniques where the operator needs a heavy viscosity material. Use Fast Set for capturing one preparation only (single unit crown); ideal for double arch dual phase techniques.

TECHNOLOGICAL CHARACTERISTICS: AQUASIL ULTRA RIGID SMART WETTING IMPRESSION MATERIAL represents a modification to Aquasil Rigid Smart Wetting Impression Material (K970433).

All of the components have been used in legally marketed devices or were found safe for use. Uncured AQUASIL ULTRA RIGID SMART WETTING IMPRESSION MATERIAL was evaluated and passed biocompatibility testing for cytotoxicity. Cured AQUASIL ULTRA RIGID SMART WETTING IMPRESSION MATERIAL was evaluated and passed biocompatibility testing for cytotoxicity, mutagenicity, irritation, and sensitization.

We believe that the data provided regarding the modifications to the predicate device support the safety and effectiveness of AQUASIL ULTRA RIGID SMART WETTING IMPRESSION MATERIAL for the indicated uses.



MAY 10 2002

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Mr. P. Jeffery Lehn  
Director of Corporate Compliance and Regulatory Affairs  
Dentsply International  
570 West College Avenue  
P.O. Box 872  
York, Pennsylvania 17405

Re: K021413

Trade/Device Name: Aquasil Ultra Rigid Smart Wetting Impression Material  
Regulation Number: 872.3660  
Regulation Name: Impression Material  
Regulatory Class: II  
Product Code: ELW  
Dated: May 02, 2002  
Received: May 03, 2002

Dear Mr. Lehn:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.


Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements

of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 21 CFR Part 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4613. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

  
For Timothy A. Ulatowski

Director  
Division of Dental, Infection Control,  
and General Hospital Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## INDICATIONS FOR USE STATEMENT

(As Required by 21 CFR 807.87(e))

510(K) Number (if known): **K021413**

Device Name: **AQUASIL ULTRA RIGID SMART WETTING IMPRESSION MATERIAL**

### Indications for Use:

Used as an impression material in a dual phase impression technique. It may also be used for precise duplication of models. Use Regular Set for capturing multiple unit impressions. It is suitable for all impression techniques where the operator needs a heavy viscosity material. Use Fast Set for capturing one preparation only (single unit crown); ideal for double arch dual phase techniques.

These are the same Indications for Use as previously cleared for the Aquasil Rigid™ Smart Wetting Impression Material (K970433).

*Mrs. Browne for MSR*  
(Division Sign-Off)  
Division of Dental, Infection Control,  
and General Hospital Devices  
510(k) Number \_\_\_\_\_

(PLEASE DO NOT WRITE BELOW THIS LINE—CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use ☒

OR

Over-The-Counter Use \_\_\_\_\_

(Per 21 CFR 801.109)

(Optional Format 1-2-96)